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CONFIDENTIAL

August 3, 1970

Attention: Dave D.

Gentlemen:

In accordance with the requirements on Task Order No. 33, we are enclosing three (3) copies of the Twenty-Fifth Monthly Letter Report—for the month of July, 1970—covering the IDT Display Program.

As a part of this report there is, as required, a Financial Status Report covering this same period.

Verv truly yours

Engineering Department

NLT:bc Enclosures (3) CC—Contracting Officer (1 Encl.)

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	IDT DISPLAY PROGRAM (U)
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	Task Order No. 33
	Twenty-Fifth Monthly Letter Report
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Task No. 33 - 24 June 1968 to 15 Aug. 1970

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Monthly Contract Status Report

Financial Status

For Period 27 June 1970 to 1 Aug. 1970

	Target Cost	Target Fee	Target Total
Amount of Contract:			
Amount of Obligations and/ or Expenditures This Period:	· ·	•	
Amount of Obligations and/ or Expenditures to Date:			
Estimated Funds to Complete:		٠.	
Percentage of Funds Expended to Date:	88%		
Percentage of Work Completed to Date:	95%		
1. Is work on schedule?		No	
2. Can work be completed in a	uthorized time?	No	
3. Can contract be completed v	with authorized funds	? Yes	

PROJECT STATUS

The remaining logic, including the exposure controller and video amplifier, have been debugged.

All subroutines have been punched and assembled and are being debugged.

As reported in our letter of 28 July 1970, delays in the logic debugging have caused a three-week delay in the projected shipping date. The remaining funds appear to be sufficient to complete the project.

WORK PLANNED DURING NEXT REPORTING PERIOD

- 1. Complete software debugging.
- 2. Start test program.

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	ORD #5314-70
	TECHNICAL REPORT
	TOTAL DESCRIPTION OF THE PROPERTY OF THE PROPE
	IDT DISPLAY PROGRAM (U)
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	Task Order No. 33
	Twenty-Fifth Monthly Letter Report
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TECHNICAL REPORT

During the past month logic debugging continued and software debugging of the final routines commenced.

The logic has been fully debugged, and should require changes only to accommodate software problems. The video amplifier used to drive the real time video has been debugged and installed.

An instruction has been added to open the shutter on the camera. The function was previously performed by the OTA '1422 instructions. Spurious decoding caused the shutter to open at random times, thus dictating a separate shutter instruction. The transfer of the exposure setting, which is the prime function of the OTA '1422 does not suffer random decoding problems because positive DRLIN and RRLIN responses are required. The new instruction required a new address, since the instruction set associated with address 22 is full. The amended instruction set is shown in Table I.

Several routines, both operational and test have been added to the program complement. The additions to the operational routines include disc write and disc read subroutines used in conjunction with the Get routine.

The test routines are being used to test the tape transport and to generate test patterns on the display. The amended program complement is shown in Table II.

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TABLE I

IDT/DISPLAY INSTRUCTION SET

High Speed IDT	Function Codes
Address 23 ₈	
1. Transfer Data	INA 00 ₈
2. Test for Scanner on Line	SKS 01 ₈
3. Clear DRLIN	OCP 02 ₈
4. Test for End of Line	SKS 03 ₈
Computer Display	Function Codes
Address 22 ₈	1
1. Clear Disc	OCP 008
2. Clear Data Switches	OCP 01 ₈
3. Set Counter	OCP 02 ₈
4. Data Transfer Computer - Buffer	OTA 03 ₈
5. Transfer X Address	OTA 04 ₈
6. Transfer Y Address	OTA 05 ₈
7. Write Disc	OCP 06 ₈
8. Test for End of Operation	SKS 07 ₈
9. Read Disc	OCP 10 ₈
10. Data Transfer Buffer - Computer	INA 11 ₈
11. Read X Cursor	INA 12 ₈
12. Read Y Cursor -	INA 13 ₈
13. Set Exposure	OTA 14 ₈
14. Test for End of Expose	. SKS 15 ₈
15. Quick Expose	OCP 16 ₈
16. Weighted Expose	OCP 17 ₈
Address 21 ₈	
17. Open Shutter	OCP 00 ₈₈

TABLE II

IDT/DISPLAY PROGRAM COMPLEMENT

Name	Description	Coded	Partially Debugged	Fully Debugged	To be Updated
Operatio	nal Routines				
MAIN	Main program	X	. X		·
LOAD	Load disc from tape	X	X		X
DUMP	Dump disc to tape	X			X
GET	Disc to TTY	X	X		
EXPO	Quick or weighted exposure	X	X		
SCAN	IDT to tape		,	X	
TABL	Read exposure table from paper tape	x	X	·	
TAPW	Tape write subroutine			X	
TAPR	Tape read subroutine	X	X		
READ	Read TTY subroutine			X	
TRAN	Transfer		,	X	
PRNT	Print on TTY subroutine			X	
PACK	Pack 8 bit words			X	
DTOO	Decimal to Octal			x	
BTOD	Binary to ASCII			X	
LRED	Disc line read	x			
LWRT	Disc line write	X			

(Continued)

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IDT/DISPLAY PROGRAM COMPLEMENT (Continued)

Name	Description	Coded	Partially Debugged	Fully Debugged	To be Updated
Test Ro	utines				,
BAR GEN	Generates step wedge on magnetic tape			x	
TAPR*	Tape read, short form			X	
TAPW*	Tape write, short form			X	
Tape Dump	Dumps tape records to TTY		X		
Trans- port Test	Program to test tape transport			X	
Dummy Tape Read	Generates gray wedge in buffer area when TAPR subr. is called		-	x	
Dummy Tape Write	Bypasses TAPW routine when doing disc dump		X		